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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/727,944	12/04/2003	Yusuke Ichikawa	17295	7378
	7590 03/23/2007 Y SCOTT MURPHY & PRESSER, PC			
400 GARDEN CITY PLAZA SUITE 300 GARDEN CITY, NY 11530			YABUT, DIANE D	
			ART UNIT	PAPER NUMBER
			3734	
SHORTENED STATUTOR	Y PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
3 MO	NTHS	03/23/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

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	Application No.	Applicant(s)					
	10/727,944	ICHIKAWA, YUSUKE					
Office Action Summary	Examiner	Art Unit					
	Diane Yabut	3734					
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address					
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period was precised to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	I. the mailing date of this communication. D (35 U.S.C. § 133).					
Status							
1) Responsive to communication(s) filed on 27 Ju	ily 200 <u>4</u> .						
3) Since this application is in condition for allowar	☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.					
Disposition of Claims							
4) Claim(s) 1-19 is/are pending in the application.							
4a) Of the above claim(s) is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>1-19</u> is/are rejected.	6)⊠ Claim(s) <u>1-19</u> is/are rejected.						
7) Claim(s) is/are objected to.		·					
8) Claim(s) are subject to restriction and/or	r election requirement.						
Application Papers							
9) The specification is objected to by the Examine	r.						
10)⊠ The drawing(s) filed on <u>27 <i>July 2004</i></u> is/are: a)⊠ accepted or b)⊡ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
11) I he oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action of form P10-152.					
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a)	-(d) or (f).					
a) ☐ All b) ☐ Some * c) ☐ None of:							
<u> </u>	1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents3. Copies of the certified copies of the priority							
application from the International Bureau		ed iii tiiis National Otage					
• •	* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)		•					
1) Notice of References Cited (PTO-892)	4) Interview Summary						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Do						
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 4/3/06; 5/27/04; 12/4/03.	6) Other:	and the property of the state o					

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DETAILED ACTION

Information Disclosure Statement

1. The information disclosure statements (IDS) submitted on 3 April 2006, 27 May 2004, and 4 December 2003 are acknowledged. The submissions are in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statements are being considered by the examiner.

Specification

1. Applicant is reminded of the proper language and format for an abstract of the disclosure.

The abstract should be in narrative form and generally limited to a single paragraph on a separate sheet within the range of 50 to 150 words. It is important that the abstract not exceed 150 words in length since the space provided for the abstract on the computer tape used by the printer is limited. The form and legal phraseology often used in patent claims, such as "means" and "said," should be avoided. The abstract should describe the disclosure sufficiently to assist readers in deciding whether there is a need for consulting the full patent text for details.

The language should be clear and concise and should not repeat information given in the title. It should avoid using phrases which can be implied, such as, "The disclosure concerns," "The disclosure defined by this invention," "The disclosure describes," etc.

2. The abstract of the disclosure is objected to because it contains legal phraseology: "comprises" in line 2 of the abstract. Correction is required. See MPEP § 608.01(b).

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Claim Objections

3. Claim 7 objected to because of the following informalities: On line 5 of Claim 4, on line 7 of Claim 5, and on line 6 of Claim 12 it reads "an cutting-tip" and should be a --cutting-tip--. Appropriate correction is required.

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 1-6, 9, 12-16, and 18 are rejected under 35 U.S.C. 103(a) as being unpatentable over **Hoyns** (U.S. Patent No. **5,759,154**) in view of **Ouichi** (U.S. Patent No. **6,238,336**).

Claims 1-2, 5-6, 13, and 16: Hoyns discloses a needle 10 for being inserted into tissue within the body cavity, which includes a plurality of staggered-array or radially-patterned doughnut-shaped recesses 114 over a predetermined range on the surface of the tip portion of the needle thereof from the tip thereof on the back side of a cutting-tip portion (Figures 1, 1A, 6; col. 4, lines 1-4). Hoyns discloses the claimed device except for the needle being a tube and a sheath which is inserted into a treatment tool insertion channel of an ultrasonic endoscope and a needle tube for being inserted into tissue within the body cavity through the sheath.

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Ouchi teaches an ultrasonic endoscope with a sheath 100 which is inserted into a treatment tool insertion channel 13 of the ultrasonic endoscope and a needle tube 101 for being inserted into tissue within the body cavity through the sheath (Figure 1, col. 4, lines 15-20). It would have been obvious to one of ordinary skill in the art at the time of invention to provide a ultrasonic endoscope and a needle tube, as taught by Ouchi, to Hoyns since it was known in the art that an injection or aspiration needle can be properly and accurately penetrated into a target part while using an ultrasonic endoscope that accurately monitors the state of penetration (col. 1, lines 50-54). Hoyns discloses multiple doughnut-shaped recesses Claims 3-4, 9, 14-15, and 18: being formed using a laser apparatus or an electric discharge machining apparatus under positioning control set so that the doughnut-shaped recesses have no adverse effects on a cutting-tip portion forming the needle tube due to overlap of the doughnut shaped recesses and the cutting-tip portion (col. 6, lines 50-58 and col. 7, lines 52-61). Claim 12: Hoyns discloses the claimed device including a puncturing portion formed with a suitable length at the tip of the ultrasonic puncture needle with a ultrasonicreflection means on the surface of the tip portion thereof, except for a tube portion formed in the shape of a tube at the rear end of the puncturing portion, and the tubeshaped portion formed as an extension of the tube portion.

Ouchi teaches a tube portion formed in the shape of a tube at the rear end of the puncturing portion of needle **101**, and the tube-shaped portion formed as an extension of the tube portion, and it would have been (Figure 1, col. 4, lines 15-20). It would have been obvious to one of ordinary skill in the art at the time of invention to provide a tube

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portion in the needle, as taught by Ouchi, to Hoyns since it was known in the art that aspiration and injection needles, or tubular needles, are commonly used with ultrasonic endoscopes.

6. Claims 7-8, 10-11, 17, and 19 are rejected under 35 U.S.C. 103(a) as being unpatentable over **Hoyns** (U.S. Patent No. **5,759,154**) and **Ouichi** (U.S. Patent No. **6,238,336**) as applied to Claims 5, 6, and 16 above, and further in view of **Guess** (U.S. Patent No. **4,401,124**).

<u>Claims 7-8 and 17</u>: Hoyns and Ouchi disclose the claimed device except for the plurality of recesses being formed at positions such that overlap of the recesses and the cutting-tip portion does not occur.

Guess teaches a needle tube with a plurality of recesses 16 being formed at positions such that overlap of the recesses and the cutting-tip portion 12 does not occur (Figure 1). It would have been obvious to one of ordinary skill in the art at the time of invention to provide a plurality of recesses that do not overlap with the cutting-tip portion, as taught by Guess, to Hoyns and Ouchi since it was known in the art that having the recesses positioned away from the cutting-tip in a non-overlapping configuration would prevent interference and decrease of cutting function.

Claims 10-11 and 19: Hoyns discloses multiple doughnut-shaped recesses being formed using a laser apparatus or an electric discharge machining apparatus under positioning control set so that the doughnut-shaped recesses have no adverse effects

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on a cutting-tip portion forming the needle tube due to overlap of the doughnut shaped recesses and the cutting-tip portion (col. 6, lines 50-58 and col. 7, lines 52-61).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Diane Yabut whose telephone number is (571) 272-6831. The examiner can normally be reached on M-F: 9AM-4PM EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Hayes can be reached on (571) 272-4959. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

DY

MICHAEL J. HAYES SUPERVISORY PATENT EXAMINER

MJ Hayon